

Appendix C: Order of Magnitude Capital Cost Estimates

Order of Magnitude Capital Cost Estimate (May 29, 2009)				
Project:	Gainesville-Haymarket Alternatives Analysis			
Location:	Gainesville, Haymarket, VA			
Project ID:	No-Build Scenario			
Description	Quantity	Unit	Unit Cost (2008\$)	Total Cost (2008\$)
10 GUIDEWAY & TRACK ELEMENTS				
10.01 Commuter Rail Track				
10.02 Commuter Rail Siding				
10.03 Grade Crossings				
10.04 Turnouts				
10.05 Crossover				
<i>Subtotal Track Elements:</i>				\$0
20 STATIONS				
20.01 At-grade station, stop, shelter, mall, terminal, platform				
20.02 Automobile structure parking				
20.03 Automobile surface parking	50	EA SPACE	\$1,600	\$80,000
20.04 Elevators and escalators				
20.05 Off-site improvements, such as roadway and traffic				
<i>Subtotal Stations:</i>				\$80,000
30 SUPPORT FACILITIES				
30.01 Storage or Maintenance of Way Building				
30.02 Yard and Yard Track				
<i>Subtotal Facilities:</i>				\$0
40 SITEWORK & SPECIAL CONDITIONS				
40.01 Demolition, Clearing, Earthwork				
40.02 Site Utilities, Utility Relocation				
40.03 Haz. mat'l, contam'd soil removal / mitigation, ground water				
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic,				
40.05 Site structures including retaining walls, sounds walls				
40.06 Pedestrian / bike access and accomodation, landscaping				
40.07 Automobile, bus, van accessways including roads, parkings lots				
40.08 Temporary Facilities and other indirect costs during				
<i>Subtotal Sitework:</i>				\$0
50 SYSTEMS				
50.01 Train control and signals				
50.02 Traffic signals and crossing protection				
50.03 Communications				
50.04 Fare collection system and equipment				
<i>Subtotal System:</i>				\$0
CONSTRUCTION SUBTOTAL (10 THROUGH 50)				
				\$80,000
60 ROW, LAND, EXISTING IMPROVEMENTS				
60.01 Purchase or lease of real estate				
60.02 Relocation of existing household and businesses				
<i>Subtotal Improvements:</i>				\$0
70 VEHICLES				
70.01a Commuter Rail: Locomotive	0	EA	\$4,500,000	\$0
70.01 bCommuter Rail: Gallery Car	2	EA	\$2,300,000	\$4,600,000
70.02 Bus				
70.03 Other				
70.04 Non-revenue vehicles				
70.05 Spare parts				
<i>Subtotal Vehicles:</i>				\$4,600,000
<i>Subtotal 10 through 70:</i>				\$4,680,000
80 PROFESSIONAL SERVICES				
80.01 Design				
80.02 Permitting				
80.03 Construction Phase				
80.04 Inspection and Project Management				
<i>Subtotal Professional Services:</i>				\$0
<i>Subtotal 10 through 80:</i>				\$4,680,000
90 CONTINGENCIES				
90.01 Indirect Soft Costs	2.00%	Percent		\$93,600
90.02 Mitigation Contingency	10.00%	Percent		\$468,000
90.03 Construction Contingency	20.00%	Percent		\$936,000
<i>Subtotal Contingencies:</i>				\$1,497,600
Grand Total (2008\$):				\$6,177,600

Appendix C: Order of Magnitude Capital Cost Estimates

Order of Magnitude Capital Cost Estimate (May 29, 2009)				
Project:	Gainesville-Haymarket Alternatives Analysis			
Location:	Gainesville, Haymarket, VA			
Project ID:	Baseline Scenario 1			
Description	Quantity	Unit	Unit Cost (2008\$)	Total Cost (2008\$)
10 GUIDEWAY & TRACK ELEMENTS				
10.01 Commuter Rail Track	0			\$0
10.02 Commuter Rail Siding	0			\$0
10.03 Grade Crossings	0			\$0
10.04 Turnouts	0			\$0
10.05 Crossover	0			\$0
<i>Subtotal Track Elements:</i>				\$0
20 STATIONS				
20.01 At-grade station, stop, shelter, mall, terminal, platform	2	LS	\$5,000	\$10,000
20.02 Automobile structure parking	0			\$0
20.03 Automobile surface parking	150	EA SPACE	\$1,600	\$240,000
20.04 Elevators and escalators	0			\$0
20.05 Off-site improvements, such as roadway and traffic	1	LS	\$650,000	\$650,000
<i>Subtotal Stations:</i>				\$900,000
30 SUPPORT FACILITIES				
30.01 Storage or Maintenance of Way Building	1	LS	\$400,000	\$400,000
30.02 Yard and Yard Track	0			\$0
<i>Subtotal Facilities:</i>				\$400,000
40 SITEWORK & SPECIAL CONDITIONS				
40.01 Demolition, Clearing, Earthwork	0			\$0
40.02 Site Utilities, Utility Relocation	0			\$0
40.03 Haz. mat'l, contam'd soil removal / mitigation, ground water	0			\$0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic,	0			\$0
40.05 Site structures including retaining walls, sounds walls	0			\$0
40.06 Pedestrian / bike access and accomodation, landscaping	1	EA	\$250,000	\$250,000
40.07 Automobile, bus, van accessways including roads, parkings	36000	SF	\$2	\$72,000
40.08 Temporary Facilities and other indirect costs during	0			\$0
<i>Subtotal Sitework:</i>				\$322,000
50 SYSTEMS				
50.01 Train control and signals	0			\$0
50.02 Traffic signals and crossing protection	0			\$0
50.03 Communications	0			\$0
50.04 Fare collection system and equipment	1	LS	\$30,000	\$30,000
<i>Subtotal System:</i>				\$30,000
CONSTRUCTION SUBTOTAL (10 THROUGH 50)				
				\$1,652,000
60 ROW, LAND, EXISTING IMPROVEMENTS				
60.01 Purchase or lease of real estate	4	ACRE	\$800,000	\$2,800,000
60.02 Relocation of existing household and businesses	1	LS	\$320,000	\$320,000
<i>Subtotal Improvements:</i>				\$3,120,000
70 VEHICLES				
70.01 Commuter Rail	0	0	\$0	\$0
70.02 Bus	18	EA	\$479,775	\$8,635,950
70.03 Other	0	0	\$0	\$0
70.04 Non-revenue vehicles	0	0	\$0	\$0
70.05 Spare parts	0	0	\$0	\$0
<i>Subtotal Vehicles:</i>				\$8,635,950
Subtotal 10 through 70:				\$13,407,950
80 PROFESSIONAL SERVICES				
80.01 Design	6.00%	Percent		\$99,120
80.02 Permitting	3.00%	Percent		\$49,560
80.03 Construction Phase	4.00%	Percent		\$66,080
80.04 Inspection and Project Management	2.50%	Percent		\$41,300
<i>Subtotal Professional Services:</i>				\$256,060
Subtotal 10 through 80:				\$13,664,010
90 CONTINGENCIES				
90.01 Indirect Soft Costs	2.00%	Percent		\$273,280
90.02 Mitigation Contingency	10.00%	Percent		\$1,366,401
90.03 Construction Contingency	20.00%	Percent		\$2,732,802
<i>Subtotal Contingencies:</i>				\$4,372,483
Grand Total (2008\$):				\$18,036,493

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Order of Magnitude Capital Cost Estimate (May 29, 2009)				
Project:	Gainesville-Haymarket Alternatives Analysis			
Location:	Gainesville, Haymarket, VA			
Project ID:	Baseline Scenario 2			
Description	Quantity	Unit	Unit Cost (2008\$)	Total Cost (2008\$)
10 GUIDEWAY & TRACK ELEMENTS				
10.01 Commuter Rail Track	0			\$0
10.02 Commuter Rail Siding	0			\$0
10.03 Grade Crossings	0			\$0
10.04 Turnouts	0			\$0
10.05 Crossover	0			\$0
<i>Subtotal Track Elements:</i>				\$0
20 STATIONS				
20.01 At-grade station, stop, shelter, mall, terminal, platform	3	LS	\$5,000	\$15,000
20.02 Automobile structure parking	0			\$0
20.03 Automobile surface parking	650	EA SPACE	\$1,600	\$1,040,000
20.04 Elevators and escalators	0			\$0
20.05 Off-site improvements, such as roadway and traffic	1	LS	\$650,000	\$650,000
<i>Subtotal Stations:</i>				\$1,705,000
30 SUPPORT FACILITIES				
30.01 Storage or Maintenance of Way Building	1	LS	\$400,000	\$400,000
30.02 Yard and Yard Track	0			\$0
<i>Subtotal Facilities:</i>				\$400,000
40 SITEWORK & SPECIAL CONDITIONS				
40.01 Demolition, Clearing, Earthwork	0			\$0
40.02 Site Utilities, Utility Relocation	0			\$0
40.03 Haz. mat'l, contam'd soil removal / mitigation, ground water	0			\$0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic,	0			\$0
40.05 Site structures including retaining walls, sounds walls	0			\$0
40.06 Pedestrian / bike access and accomodation, landscaping	1	EA	\$250,000	\$250,000
40.07 Automobile, bus, van accessways including roads, parkings lots	800	SF	\$2	\$1,600
40.08 Temporary Facilities and other indirect costs during	0			\$0
<i>Subtotal Sitework:</i>				\$251,600
50 SYSTEMS				
50.01 Train control and signals	0			\$0
50.02 Traffic signals and crossing protection	0			\$0
50.03 Communications	0			\$0
50.04 Fare collection system and equipment	3	LS	\$30,000	\$90,000
<i>Subtotal System:</i>				\$90,000
CONSTRUCTION SUBTOTAL (10 THROUGH 50)				
				\$2,446,600
60 ROW, LAND, EXISTING IMPROVEMENTS				
60.01 Purchase or lease of real estate	4	ACRE	\$800,000	\$3,200,000
60.02 Relocation of existing household and businesses	1	LS	\$320,000	\$320,000
<i>Subtotal Improvements:</i>				\$3,520,000
70 VEHICLES				
70.01a Commuter Rail: Locomotive	2	EA	\$4,500,000	\$9,000,000
70.01 bCommuter Rail: Gallery Car	26	EA	\$2,300,000	\$59,800,000
70.02 Bus	5	EA	\$479,775	\$2,398,875
70.03 Other	0	0	\$0	\$0
70.04 Non-revenue vehicles	0	0	\$0	\$0
70.05 Spare parts	0	0	\$0	\$0
<i>Subtotal Vehicles:</i>				\$71,198,875
<i>Subtotal 10 through 70:</i>				\$77,165,475
80 PROFESSIONAL SERVICES				
80.01 Design	6.00%	Percent		\$146,796
80.02 Permitting	3.00%	Percent		\$73,398
80.03 Construction Phase	4.00%	Percent		\$97,864
80.04 Inspection and Project Management	2.50%	Percent		\$61,165
<i>Subtotal Professional Services:</i>				\$379,223
<i>Subtotal 10 through 80:</i>				\$77,544,698
90 CONTINGENCIES				
90.01 Indirect Soft Costs	2.00%	Percent		\$1,550,894
90.02 Mitigation Contingency	10.00%	Percent		\$7,754,470
90.03 Construction Contingency	20.00%	Percent		\$15,508,940
<i>Subtotal Contingencies:</i>				\$24,814,303
Grand Total (2008\$):				\$102,359,001

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Order of Magnitude Capital Cost Estimate (May 29, 2009)				
Project:	Gainesville-Haymarket Alternatives Analysis			
Location:	Gainesville, Haymarket, VA			
Project ID:	Alternative 1B			
Description	Quantity	Unit	Unit Cost (2008\$)	Total Cost (2008\$)
10 GUIDEWAY & TRACK ELEMENTS				
10.01 Commuter Rail Track	48,890	TF	\$400	\$19,556,000
10.02 Commuter Rail Siding				\$0
10.03 Grade Crossings	11	LS	\$125,000	\$1,375,000
10.04 Turnouts	11	LS	\$100,000	\$1,100,000
10.05 Crossover	4	LS	\$170,000	\$680,000
<i>Subtotal Track Elements:</i>				\$22,711,000
20 STATIONS				
20.01 At-grade station, stop, shelter, mall, terminal, platform	3	LS	\$5,050,000	\$15,150,000
20.02 Automobile structure parking				\$0
20.03 Automobile surface parking	100	EA SPACE	\$1,600	\$160,000
20.04 Elevators and escalators	6	EA	\$250,000	\$1,500,000
20.05 Off-site improvements, such as roadway and traffic	1	LS	\$1,950,000	\$1,950,000
<i>Subtotal Stations:</i>				\$18,760,000
30 SUPPORT FACILITIES				
30.01 Storage or Maintenance of Way Building	1	LS	\$125,000	\$125,000
30.02 Yard and Yard Track	9,000	TF	\$350	\$3,150,000
<i>Subtotal Facilities:</i>				\$3,275,000
40 SITEWORK & SPECIAL CONDITIONS				
40.01 Demolition, Clearing, Earthwork				\$0
40.02 Site Utilities, Utility Relocation	3	LS	\$100,000	\$300,000
40.03 Haz. mat'l, contam'd soil removal / mitigation, ground water	3	LS	\$250,000	\$750,000
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic,	1	ACRE	\$1,800,000	\$1,800,000
40.05 Site structures including retaining walls, sounds walls	1,200	SF	\$1,000	\$1,200,000
40.06 Pedestrian / bike access and accomodation, landscaping	3	LS	\$52,740	\$158,220
40.07 Automobile, bus, van accessways including roads, parkings lots				\$0
40.08 Temporary Facilities and other indirect costs during construction				\$0
<i>Subtotal Sitework:</i>				\$4,208,220
50 SYSTEMS				
50.01 Train control and signals	1	LS	\$10,000,000	\$10,000,000
50.02 Traffic signals and crossing protection	11	LS	\$150,000	\$1,650,000
50.03 Communications	3	LS	\$40,000	\$120,000
50.04 Fare collection system and equipment	3	LS	\$40,000	\$120,000
<i>Subtotal System:</i>				\$11,890,000
CONSTRUCTION SUBTOTAL (10 THROUGH 50)				
				\$60,844,220
60 ROW, LAND, EXISTING IMPROVEMENTS				
60.01 Purchase or lease of real estate-Track	1,026,450	SF	\$10	\$10,264,500
60.01 Purchase or lease of real estate-Stations	4	ACRE	\$800,000	\$3,200,000
60.02 Relocation of existing household and businesses	1	LS	\$320,000	\$320,000
<i>Subtotal Improvements:</i>				\$13,784,500
70 VEHICLES				
70.01a Commuter Rail: Locomotive	1	EA	\$4,500,000	\$4,500,000
70.01b Commuter Rail: Gallery Car	12	EA	\$2,300,000	\$27,600,000
70.02 Bus				\$0
70.03 Other				\$0
70.04 Non-revenue vehicles				\$0
70.05 Spare parts				\$0
<i>Subtotal Vehicles:</i>				\$32,100,000
<i>Subtotal 10 through 70:</i>				\$106,728,720
80 PROFESSIONAL SERVICES				
80.01 Design	6.00%	Percent		\$3,650,653
80.02 Permitting	3.00%	Percent		\$1,825,327
80.03 Construction Phase	4.00%	Percent		\$2,433,769
80.04 Inspection and Project Management	2.50%	Percent		\$1,521,106
<i>Subtotal Professional Services:</i>				\$9,430,854
<i>Subtotal 10 through 80:</i>				\$116,159,574
90 CONTINGENCIES				
90.01 Indirect Soft Costs	2.00%	Percent		\$2,323,191
90.02 Mitigation Contingency	10.00%	Percent		\$11,615,957
90.03 Construction Contingency	20.00%	Percent		\$23,231,915
<i>Subtotal Contingencies:</i>				\$37,171,064
Grand Total (2008\$):				\$153,330,638

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Order of Magnitude Capital Cost Estimate (May 29, 2009)				
Project:	Gainesville-Haymarket Alternatives Analysis			
Location:	Gainesville, Haymarket, VA			
Project ID:	Alternative 1C			
Description	Quantity	Unit	Unit Cost (2008\$)	Total Cost (2008\$)
10 GUIDEWAY & TRACK ELEMENTS				
10.01 Commuter Rail Track	48,890	TF	\$400	\$19,556,000
10.02 Commuter Rail Siding				\$0
10.03 Grade Crossings	11	LS	\$125,000	\$1,375,000
10.04 Turnouts	11	LS	\$100,000	\$1,100,000
10.05 Crossover	4	LS	\$170,000	\$680,000
<i>Subtotal Track Elements:</i>				\$22,711,000
20 STATIONS				
20.01 At-grade station, stop, shelter, mall, terminal, platform	3	LS	\$5,050,000	\$15,150,000
20.02 Automobile structure parking				\$0
20.03 Automobile surface parking	2,600	EA SPACE	\$1,600	\$4,160,000
20.04 Elevators and escalators	6	EA	\$250,000	\$1,500,000
20.05 Off-site improvements, such as roadway and traffic	1	LS	\$1,950,000	\$1,950,000
<i>Subtotal Stations:</i>				\$22,760,000
30 SUPPORT FACILITIES				
30.01 Storage or Maintenance of Way Building	1	LS	\$125,000	\$125,000
30.02 Yard and Yard Track	9,000	TF	\$350	\$3,150,000
<i>Subtotal Facilities:</i>				\$3,275,000
40 SITEWORK & SPECIAL CONDITIONS				
40.01 Demolition, Clearing, Earthwork				\$0
40.02 Site Utilities, Utility Relocation	3	LS	\$100,000	\$300,000
40.03 Haz. mat'l, contam'd soil removal / mitigation, ground water	3	LS	\$250,000	\$750,000
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic,	1	ACRE	\$1,800,000	\$1,800,000
40.05 Site structures including retaining walls, sounds walls	1,200	SF	\$1,000	\$1,200,000
40.06 Pedestrian / bike access and accomodation, landscaping	3	LS	\$52,740	\$158,220
40.07 Automobile, bus, van accessways including roads, parkings lots				\$0
40.08 Temporary Facilities and other indirect costs during construction				\$0
<i>Subtotal Sitework:</i>				\$4,208,220
50 SYSTEMS				
50.01 Train control and signals	1	LS	\$10,000,000	\$10,000,000
50.02 Traffic signals and crossing protection	11	LS	\$150,000	\$1,650,000
50.03 Communications	3	LS	\$40,000	\$120,000
50.04 Fare collection system and equipment	3	LS	\$40,000	\$120,000
<i>Subtotal System:</i>				\$11,890,000
CONSTRUCTION SUBTOTAL (10 THROUGH 50)				
				\$64,844,220
60 ROW, LAND, EXISTING IMPROVEMENTS				
60.01 Purchase or lease of real estate-Track	1,026,450	SF	\$10	\$10,264,500
60.01 Purchase or lease of real estate-Stations	4	ACRE	\$800,000	\$3,200,000
60.02 Relocation of existing household and businesses	1	LS	\$320,000	\$320,000
<i>Subtotal Improvements:</i>				\$13,784,500
70 VEHICLES				
70.01a Commuter Rail: Locomotive	6	EA	\$4,500,000	\$27,000,000
70.01b Commuter Rail: Gallery Car	30	EA	\$2,300,000	\$69,000,000
70.02 Bus				\$0
70.03 Other				\$0
70.04 Non-revenue vehicles				\$0
70.05 Spare parts				\$0
<i>Subtotal Vehicles:</i>				\$96,000,000
<i>Subtotal 10 through 70:</i>				\$174,628,720
80 PROFESSIONAL SERVICES				
80.01 Design	6.00%	Percent		\$3,890,653
80.02 Permitting	3.00%	Percent		\$1,945,327
80.03 Construction Phase	4.00%	Percent		\$2,593,769
80.04 Inspection and Project Management	2.50%	Percent		\$1,621,106
<i>Subtotal Professional Services:</i>				\$10,050,854
<i>Subtotal 10 through 80:</i>				\$184,679,574
90 CONTINGENCIES				
90.01 Indirect Soft Costs	2.00%	Percent		\$3,693,591
90.02 Mitigation Contingency	10.00%	Percent		\$18,467,957
90.03 Construction Contingency	20.00%	Percent		\$36,935,915
<i>Subtotal Contingencies:</i>				\$59,097,464
Grand Total (2008\$):				\$243,777,038

Order of Magnitude Capital Cost Estimate (May 29, 2009)

Project:	Gainesville-Haymarket Alternatives Analysis			
Location:	Gainesville, Haymarket, VA			
Project ID:	Alternative 1D			
Description	Quantity	Unit	Unit Cost (2008\$)	Total Cost (2008\$)
10 GUIDEWAY & TRACK ELEMENTS				
10.01 Commuter Rail Track	48,890	TF	\$400	\$19,556,000
10.02 Commuter Rail Siding				\$0
10.03 Grade Crossings	11	LS	\$125,000	\$1,375,000
10.04 Turnouts	11	LS	\$100,000	\$1,100,000
10.05 Crossover	4	LS	\$170,000	\$680,000
<i>Subtotal Track Elements:</i>				\$22,711,000
20 STATIONS				
20.01 At-grade station, stop, shelter, mall, terminal, platform	3	LS	\$5,050,000	\$15,150,000
20.02 Automobile structure parking				\$0
20.03 Automobile surface parking	450	EA SPACE	\$1,600	\$720,000
20.04 Elevators and escalators	6	EA	\$250,000	\$1,500,000
20.05 Off-site improvements, such as roadway and traffic	1	LS	\$1,950,000	\$1,950,000
<i>Subtotal Stations:</i>				\$19,320,000
30 SUPPORT FACILITIES				
30.01 Storage or Maintenance of Way Building	1	LS	\$125,000	\$125,000
30.02 Yard and Yard Track	9,000	TF	\$350	\$3,150,000
<i>Subtotal Facilities:</i>				\$3,275,000
40 SITEWORK & SPECIAL CONDITIONS				
40.01 Demolition, Clearing, Earthwork				\$0
40.02 Site Utilities, Utility Relocation	3	LS	\$100,000	\$300,000
40.03 Haz. mat'l, contam'd soil removal / mitigation, ground water	3	LS	\$250,000	\$750,000
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic,	1	ACRE	\$1,800,000	\$1,800,000
40.05 Site structures including retaining walls, sounds walls	1,200	SF	\$1,000	\$1,200,000
40.06 Pedestrian / bike access and accomodation, landscaping	3	LS	\$52,740	\$158,220
40.07 Automobile, bus, van accessways including roads, parkings lots				\$0
40.08 Temporary Facilities and other indirect costs during construction				\$0
<i>Subtotal Sitework:</i>				\$4,208,220
50 SYSTEMS				
50.01 Train control and signals	1	LS	\$10,000,000	\$10,000,000
50.02 Traffic signals and crossing protection	11	LS	\$150,000	\$1,650,000
50.03 Communications	3	LS	\$40,000	\$120,000
50.04 Fare collection system and equipment	3	LS	\$40,000	\$120,000
<i>Subtotal System:</i>				\$11,890,000
CONSTRUCTION SUBTOTAL (10 THROUGH 50)				
				\$61,404,220
60 ROW, LAND, EXISTING IMPROVEMENTS				
60.01 Purchase or lease of real estate-Track	1,026,450	SF	\$10	\$10,264,500
60.01 Purchase or lease of real estate-Stations	4	ACRE	\$800,000	\$3,200,000
60.02 Relocation of existing household and businesses	1	LS	\$320,000	\$320,000
<i>Subtotal Improvements:</i>				\$13,784,500
70 VEHICLES				
70.01a Commuter Rail: Locomotive	2	EA	\$4,500,000	\$9,000,000
70.01b Commuter Rail: Gallery Car	26	EA	\$2,300,000	\$59,800,000
70.02 Bus				\$0
70.03 Other				\$0
70.04 Non-revenue vehicles				\$0
70.05 Spare parts				\$0
<i>Subtotal Vehicles:</i>				\$68,800,000
<i>Subtotal 10 through 70:</i>				\$143,988,720
80 PROFESSIONAL SERVICES				
80.01 Design	6.00%	Percent		\$3,684,253
80.02 Permitting	3.00%	Percent		\$1,842,127
80.03 Construction Phase	4.00%	Percent		\$2,456,169
80.04 Inspection and Project Management	2.50%	Percent		\$1,535,106
<i>Subtotal Professional Services:</i>				\$9,517,654
<i>Subtotal 10 through 80:</i>				\$153,506,374
90 CONTINGENCIES				
90.01 Indirect Soft Costs	2.00%	Percent		\$3,070,127
90.02 Mitigation Contingency	10.00%	Percent		\$15,350,637
90.03 Construction Contingency	20.00%	Percent		\$30,701,275
<i>Subtotal Contingencies:</i>				\$49,122,040
Grand Total (2008\$):				\$202,628,414